

PZ045P1\_SeqList04112001.txt

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<150> PCT/US00/28664

<151> 2000-10-17

<150> 60/163,085

<151> 1999-11-02

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agcagcagtg	ataatgctca	gaactttagt	tttaaaacaa	actctggatt	tgctgctgcc	600
tcttctggaa	gccctgctgg	ttttgggagt	tccccagcat	ttggagctgc	agcctctacc	660
agttcaggta	tctctacttc	tgctccagct	tttggatttg	ggaagcctga	agtcacatcg	720
gctgcatcat	tttcattcaa	aagccctgca	gcttccagtt	ttggatcacc	tggattttca	780
ggacttccag	cttccttggc	aacaggctct	gtcagagctc	cagtggcccc	agccttttga	840
gggtggcagtt	ctgtggctgg	ttttggtagt	ccgggctcac	attctcacac	tgctttttct	900
aagccatcca	gtgacacttt	tggaaatagc	agcatatcca	cttctctgtc	agcctcaagc	960
agcatcattg	caacagataa	tgtgttattc	acaccagaa	ataaactaac	agtagaagaa	1020
ctggaacaat	ttcaatccaa	gaaatttact	ctgggaaaaa	ttccattaaa	gcctccacct	1080
ctggaacttc	taaatgttta	aaagggcaat	tttaaataca	aaaaagaatg	atgtttaaaa	1140
ttgctttgag	tgattcatac	agagatgtat	atatgcatac	atgtatatat	tcataaggaa	1200
tataagcttc	catcaatagt	gattttaaat	ttgatttttt	tcttaactct	aaatatattaa	1260
gtaaaaagta	acaaaaactc	tgcaagcaag	ggaatttttt	tgtactgtaa	ttttgaatgg	1320
aactgaaaaa	ttatgcacga	ataaagtact	tttctcatgc	caaaaaaaaa	aaaaaaaaaaa	1380

<210> 34  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 34  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
 1 5 10 15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
 20 25 30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
 35 40 45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
 50 55 60  
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
 65 70 75 80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
 85 90 95  
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
 100 105 110  
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys  
 115 120 125  
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn  
 130 135 140  
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser  
 145 150 155 160  
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln  
 165 170 175  
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp  
 180 185 190  
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe  
 195 200 205  
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe  
 210 215 220  
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His

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225								230								235								240
Asp	Met	Phe	Gln	Pro	Phe	Phe	Asp	Met	Ile	His	Gln	Ala	Gln	Gln	Ala									
				245					250					255										
Met	Asp	Val	Asn	Leu	His	Arg	Leu	Pro	His	Phe	Pro	Met	Glu	Phe	Thr									
			260					265					270											
Glu	Glu	Asp	Asn	Gln	Asp	Gly	Ala	Val	Cys	Lys	Glu	Ile	Arg	His	Asn									
		275					280					285												
Ser	Thr	Gly	Cys	Leu	Lys	Met	Lys	Asp	Gln	Cys	Glu	Lys	Cys	Arg	Glu									
	290					295					300													
Ile	Leu	Ser	Val	Asp	Cys	Ser	Ser	Asn	Asn	Pro	Ala	Gln	Val	Gln	Leu									
	305				310					315					320									
Arg	Gln	Glu	Leu	Asn	Asn	Ser	Leu	Gln	Ile	Ala	Glu	Lys	Phe	Thr	Lys									
				325					330					335										
Leu	Val	Arg	Arg	Ala	Ala	Ala	Val	Leu	Pro	Gly	Glu	Asp	Val	Gln	His									
			340					345					350											
Val	Leu	Pro	Ala	Glu	Ala	Ala	Gly	Arg	Ala	Val														
		355					360																	

<210> 35  
<211> 766  
<212> PRT  
<213> Homo sapiens

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Leu	Trp	Glu	Trp 20	Ile	Ala	Leu	Ser	Leu 25	His	Cys	Trp	Val	Leu 30	Ala	Val	
Ala	Ala	Val 35	Ser	Asp	Gln	His	Ala 40	Thr	Ser	Pro	Phe	Asp 45	Trp	Leu	Leu	
Ser	Asp 50	Lys	Gly	Pro	Phe	His 55	Arg	Ser	Gln	Glu	Tyr 60	Thr	Asp	Phe	Val	
Asp 65	Arg	Ser	Arg	Gln	Gly 70	Phe	Ser	Thr	Arg	Tyr 75	Lys	Ile	Tyr	Arg	Glu 80	
Phe	Gly	Arg	Trp	Lys 85	Val	Asn	Asn	Leu	Ala 90	Val	Glu	Arg	Arg	Asn 95	Phe	
Leu	Gly	Ser	Pro 100	Leu	Pro	Leu	Ala	Pro 105	Glu	Phe	Phe	Arg	Asn 110	Ile	Arg	
Leu	Leu	Gly 115	Arg	Arg	Pro	Thr	Leu 120	Gln	Gln	Ile	Thr	Glu 125	Asn	Leu	Ile	
Lys	Lys 130	Tyr	Gly	Thr	His	Phe 135	Leu	Leu	Ser	Ala	Thr 140	Leu	Gly	Gly	Glu	
Glu 145	Ser	Leu	Thr	Ile	Phe 150	Val	Asp	Lys	Arg	Lys 155	Leu	Ser	Lys	Arg	Ala 160	
Glu	Gly	Ser	Asp	Ser 165	Thr	Thr	Asn	Ser	Ser 170	Ser	Val	Thr	Leu	Glu 175	Thr	
Leu	His	Gln	Leu 180	Ala	Ala	Ser	Tyr	Phe 185	Ile	Asp	Arg	Asp	Ser 190	Thr	Leu	

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Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr  
195 200 205

Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp  
210 215 220

Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu  
225 230 235 240

Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val  
245 250 255

Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile  
260 265 270

Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu  
275 280 285

Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu  
290 295 300

Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser  
305 310 315 320

Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu  
325 330 335

Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln  
340 345 350

Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys  
355 360 365

Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His  
370 375 380

Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp  
385 390 395 400

Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu  
405 410 415

Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln  
420 425 430

Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala  
435 440 445

Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn  
450 455 460

Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu  
465 470 475 480

Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu  
485 490 495

Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala  
500 505 510

Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser  
515 520 525

Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser  
530 535 540

Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr



545				550				555				560			
Lys	Asn	Ser	Thr	Leu 565	Glu	Pro	Val	Leu	Ala 570	Val	Tyr	Val	Asn	Pro 575	Phe
Gly	Gly	Ser	His 580	Ser	Glu	Ser	Trp	Phe 585	Met	Pro	Val	Asn	Glu 590	Asn	Ser
Phe	Pro	Asp 595	Trp	Glu	Arg	Thr	Lys 600	Leu	Asp	Leu	Pro	Leu 605	Gln	Cys	Tyr
Asn	Trp 610	Thr	Leu	Thr	Leu	Gly 615	Asn	Lys	Trp	Lys	Thr 620	Phe	Phe	Glu	Thr
Val 625	His	Ile	Tyr	Leu	Arg 630	Ser	Arg	Ile	Lys	Ser 635	Asn	Gly	Pro	Asn	Gly 640
Asn	Glu	Ser	Ile	Tyr 645	Tyr	Glu	Pro	Leu	Glu 650	Phe	Ile	Asp	Pro	Ser 655	Arg
Asn	Leu	Gly	Tyr 660	Met	Lys	Ile	Asn	Asn 665	Ile	Gln	Val	Phe	Gly 670	Tyr	Ser
Met	His 675	Phe	Asp	Pro	Glu	Ala	Ile 680	Arg	Asp	Leu	Ile	Leu 685	Gln	Leu	Asp
Tyr	Pro 690	Tyr	Thr	Gln	Gly	Ser 695	Gln	Asp	Ser	Ala	Leu 700	Leu	Gln	Leu	Leu
Glu 705	Ile	Arg	Asp	Arg	Val 710	Asn	Lys	Leu	Ser	Pro 715	Pro	Gly	Gln	Arg	Arg 720
Leu	Asp	Leu	Phe	Ser 725	Cys	Leu	Leu	Arg	His 730	Arg	Leu	Lys	Leu	Ser 735	Thr
Ser	Glu	Val	Val 740	Arg	Ile	Gln	Ser	Ala 745	Leu	Gln	Ala	Phe	Asn 750	Ala	Lys
Leu	Pro	Asn 755	Thr	Met	Asp	Tyr	Asp 760	Thr	Thr	Lys	Leu	Cys 765	Ser		

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<210> 36
<211> 208
<212> PRT
<213> Homo sapiens
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<400> 36  
Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr  
1 5 10 15  
Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met  
20 25 30  
Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser  
35 40 45  
Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn  
50 55 60  
Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp  
65 70 75 80  
Ser Ser Asn Thr Thr Val Thr Thr Met Lys Pro Thr Ala Ala Ser Asn  
85 90 95  
Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu  
100 105 110

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Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile  
115 120 125  
Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala  
130 135 140  
Ala Ser Ser Val Thr Ile Thr Thr Thr Met His Ser Glu Ala Lys Lys  
145 150 155 160  
Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr  
165 170 175  
Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser  
180 185 190  
Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile  
195 200 205

<210> 37  
<211> 605  
<212> PRT  
<213> Homo sapiens

<400> 37  
Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser Pro  
1 5 10 15  
Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala  
20 25 30  
Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu  
35 40 45  
Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro  
50 55 60  
Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly  
65 70 75 80  
Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln  
85 90 95  
Tyr Phe Trp Glu Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu  
100 105 110  
Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly  
115 120 125  
Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser  
130 135 140  
Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro  
145 150 155 160  
Arg Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu  
165 170 175  
Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Glu Glu Leu Leu Pro Val  
180 185 190  
Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu  
195 200 205

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Thr	Ser	Ser	Ser	Gln	Thr	Pro	Gly	Ala	Thr	Lys	Ser	Arg	His	Glu	Asp
	210					215					220				
Ser	Gly	Asp	Gln	Ala	Ser	Ser	Gly	Val	Glu	Val	Glu	Ser	Ser	Met	Gly
225					230					235					240
Pro	Ser	Leu	Leu	Leu	Pro	Ser	Val	Thr	Pro	Thr	Thr	Val	Thr	Pro	Gly
				245					250					255	
Asp	Gln	Asp	Ser	Thr	Ser	Gln	Glu	Ala	Glu	Ala	Thr	Val	Leu	Pro	Ala
			260					265					270		
Ala	Gly	Leu	Gly	Val	Glu	Phe	Glu	Ala	Pro	Gln	Glu	Ala	Ser	Glu	Glu
		275					280					285			
Ala	Thr	Ala	Gly	Ala	Ala	Gly	Leu	Ser	Gly	Gln	His	Glu	Glu	Val	Pro
	290					295					300				
Ala	Leu	Pro	Ser	Phe	Pro	Gln	Thr	Thr	Ala	Pro	Ser	Gly	Ala	Glu	His
305					310					315					320
Pro	Asp	Glu	Asp	Pro	Leu	Gly	Ser	Arg	Thr	Ser	Ala	Ser	Ser	Pro	Leu
				325					330					335	
Ala	Pro	Gly	Asp	Met	Glu	Leu	Thr	Pro	Ser	Ser	Ala	Thr	Leu	Gly	Gln
			340					345					350		
Glu	Asp	Leu	Asn	Gln	Gln	Leu	Leu	Glu	Gly	Gln	Ala	Ala	Glu	Ala	Gln
		355					360					365			
Ser	Arg	Ile	Pro	Trp	Asp	Ser	Thr	Gln	Val	Ile	Cys	Lys	Asp	Trp	Ser
	370					375					380				
Asn	Leu	Ala	Gly	Lys	Asn	Tyr	Ile	Ile	Leu	Asn	Met	Thr	Glu	Asn	Ile
385					390					395					400
Asp	Cys	Glu	Val	Phe	Arg	Gln	His	Arg	Gly	Pro	Gln	Leu	Leu	Ala	Leu
				405					410					415	
Val	Glu	Glu	Val	Leu	Pro	Arg	His	Gly	Ser	Gly	His	His	Gly	Ala	Trp
			420					425					430		
His	Ile	Ser	Leu	Ser	Lys	Pro	Ser	Glu	Lys	Glu	Gln	His	Leu	Leu	Met
		435					440					445			
Thr	Leu	Val	Gly	Glu	Gln	Gly	Val	Val	Pro	Thr	Gln	Asp	Val	Leu	Ser
	450					455					460				
Met	Leu	Gly	Asp	Ile	Arg	Arg	Ser	Leu	Glu	Glu	Ile	Gly	Ile	Gln	Asn
465					470					475					480
Tyr	Ser	Thr	Thr	Ser	Ser	Cys	Gln	Ala	Arg	Ala	Ser	Gln	Val	Arg	Ser
				485					490					495	
Asp	Tyr	Gly	Thr	Leu	Phe	Val	Val	Leu	Val	Val	Ile	Gly	Ala	Ile	Cys
			500					505					510		
Ile	Ile	Ile	Ile	Ala	Leu	Gly	Leu	Leu	Tyr	Asn	Cys	Trp	Gln	Arg	Arg
		515					520					525			
Leu	Pro	Lys	Leu	Lys	His	Val	Ser	His	Gly	Glu	Glu	Leu	Arg	Phe	Val
	530					535					540				
Glu	Asn	Gly	Cys	His	Asp	Asn	Pro	Thr	Leu	Asp	Val	Ala	Ser	Asp	Ser
545					550					555					560
Gln	Ser	Glu	Met	Gln	Glu	Lys	His	Pro	Ser	Leu	Asn	Gly	Gly	Gly	Ala
				565					570					575	

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Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp  
580 585 590

Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu  
595 600 605

<210> 38  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 38  
Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile  
1 5 10 15

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val  
20 25 30

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile  
35 40 45

Gln Pro Cys Leu Phe Leu Pro Thr Thr Thr Gly Leu Ser Ser Gly Tyr  
50 55 60

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr  
65 70 75 80

Ala Ile Pro Gly Cys Leu  
85

<210> 39  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 39  
Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu  
1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala  
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala  
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp  
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp  
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly  
85 90 95

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg  
100 105 110

Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys  
115 120 125

Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser  
130 135 140

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser  
145 150 155

PZ045P1\_SeqList04112001.txt

<210> 40  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 40  
 Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp  
 1 5 10 15  
 Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln  
 20 25 30  
 Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser  
 35 40 45  
 Leu Ala Trp Arg Leu Leu Met Ser Ser Gly  
 50 55

<210> 41  
 <211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 41  
 Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser  
 1 5 10 15  
 Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr  
 20 25 30  
 Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser  
 35 40 45  
 Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn  
 50 55 60  
 Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys  
 65 70 75 80  
 Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro  
 85 90 95  
 Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu  
 100 105 110  
 Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val  
 115 120 125  
 Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser  
 130 135 140  
 Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg  
 145 150 155 160  
 Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln  
 165 170 175  
 Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser  
 180 185 190  
 Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser  
 195 200 205  
 Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met  
 210 215 220

PZ045P1\_SeqList04112001.txt

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr  
 225 230 235 240  
 Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser  
 245 250 255  
 Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu  
 260 265 270  
 Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp  
 275 280 285  
 Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe  
 290 295 300  
 Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu  
 305 310 315 320  
 Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu  
 325 330 335  
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln  
 340 345 350  
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr  
 355 360 365  
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu  
 370 375 380  
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val  
 385 390 395 400  
 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys  
 405 410 415  
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val  
 420 425 430

<210> 42  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 42  
 Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu  
 1 5 10 15  
 Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn  
 20 25 30  
 Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu  
 35 40 45  
 Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp  
 50 55 60  
 Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile  
 65 70 75 80  
 Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu  
 85 90 95

PZ045P1\_SeqList04112001.txt

Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp  
 100 105 110  
 Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe  
 115 120 125  
 Val Arg Asp  
 130

<210> 43  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 43  
 Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys  
 1 5 10 15  
 Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu  
 20 25 30  
 Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly  
 35 40 45  
 Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala  
 50 55 60  
 Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro  
 65 70 75 80  
 Gly Ala Ser Gly Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys  
 85 90 95  
 Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu  
 100 105 110  
 Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg  
 115 120 125  
 Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser  
 130 135 140  
 Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr  
 145 150 155 160  
 Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu  
 165 170 175  
 Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln  
 180 185 190  
 Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly  
 195 200 205  
 Ser Thr Ser Leu Ala Ser His  
 210 215

<210> 44  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 44  
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
 1 5 10 15

PZ045P1\_SeqList04112001.txt

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
20 25 30

Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
35 40 45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
50 55 60

<210> 45  
<211> 125  
<212> PRT  
<213> Homo sapiens

<400> 45  
Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val  
1 5 10 15

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met  
20 25 30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu  
35 40 45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala  
50 55 60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly  
65 70 75 80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro  
85 90 95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe  
100 105 110

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu  
115 120 125

<210> 46  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 46  
Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala  
1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu  
20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val  
35 40 45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu  
50 55 60

Ile His Val Gly Leu Leu Asn  
65 70

<210> 47  
<211> 69  
<212> PRT  
<213> Homo sapiens



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<400> 47

Met Lys Ala Val Val<sub>5</sub> Leu Leu Lys Ala Phe<sub>10</sub> Ser Phe Ser Leu Cys<sub>15</sub> Ser  
 Ala Ile Ser Pro<sub>20</sub> Val Thr Pro Gly Phe<sub>25</sub> Arg Gln Thr Ile Asn Val Leu  
 Asp Thr Val<sub>35</sub> Ala Phe Ser Ala Phe<sub>40</sub> Phe Ile Tyr Leu Phe<sub>45</sub> Thr Val Thr  
 Ala Ser Ile Asn Phe Tyr Ala<sub>55</sub> Tyr Phe Ser Ser Phe<sub>60</sub> Leu Ala Gly Ala  
 Pro Phe Ile Lys Ile  
 65

<210> 48

<211> 85

<212> PRT

<213> Homo sapiens

<400> 48

Met Ala Ala Gly Gly<sub>5</sub> Cys Leu Leu Leu<sub>10</sub> Ala Phe Phe Pro Leu<sub>15</sub> Ser  
 Arg Gly Ser His<sub>20</sub> Phe His Leu Gln Lys<sub>25</sub> Arg Ala Leu Ala Glu<sub>30</sub> Ala Ser  
 Phe Glu Ala<sub>35</sub> Thr Leu Cys Glu<sub>40</sub> Leu Phe Val Ile Glu<sub>45</sub> Thr Ala Ser Lys  
 Gly Thr Leu Leu Ile Ile Thr<sub>55</sub> Ile Arg His Leu Val<sub>60</sub> Thr Tyr Ile Ile  
 Val Ile Phe Lys Cys His<sub>70</sub> Met Leu Lys Asn Glu<sub>75</sub> Met Asn Ser Ser Ile<sub>80</sub>  
 Lys Pro His Phe Gln  
 85

<210> 49

<211> 150

<212> PRT

<213> Homo sapiens

<400> 49

Met Val Met Ile Leu<sub>5</sub> Phe Val Ala Phe<sub>10</sub> Ile Thr Cys Trp Glu Glu<sub>15</sub> Val  
 Thr Thr Leu Val<sub>20</sub> Gln Ala Ile Arg Ile<sub>25</sub> Thr Ser Tyr Met Asn Glu Thr  
 Ile Leu Tyr Phe Pro Phe Ser Ser<sub>40</sub> His Ser Ser Tyr Thr Val Arg Ser  
 Lys Lys Ile Phe Leu Ser Lys<sub>55</sub> Leu Ile Val Cys Phe<sub>60</sub> Leu Ser Thr Trp  
 Leu Pro Phe Val Leu Leu<sub>70</sub> Gln Val Ile Ile Val<sub>75</sub> Leu Leu Lys Val Gln<sub>80</sub>  
 Ile Pro Ala Tyr Ile<sub>85</sub> Glu Met Asn Ile Pro Trp Leu Tyr Phe Val<sub>95</sub> Asn  
 Ser Phe Leu Ile Ala Thr Val Tyr Trp<sub>105</sub> Phe Asn Cys His Lys<sub>110</sub> Leu Asn  
 100

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Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys  
115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro  
130 135 140

Ile Ser Ile Met Ile Cys  
145 150

<210> 50

<211> 298

<212> PRT

<213> Homo sapiens

<400> 50

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu  
1 5 10 15

Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp  
20 25 30

Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu  
35 40 45

Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile  
50 55 60

Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr  
65 70 75 80

Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu  
85 90 95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp  
100 105 110

Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe  
115 120 125

Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn  
130 135 140

Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp  
145 150 155 160

Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu  
165 170 175

Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe  
180 185 190

Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala  
195 200 205

Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala  
210 215 220

Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His  
225 230 235 240

Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys  
245 250 255

Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu  
260 265 270

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Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys  
275 280 285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe  
290 295

<210> 51  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 51  
Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His  
1 5 10 15

Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu  
20 25 30

Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser  
35 40 45

Trp Ala Arg Pro Leu Gly Asp Leu Glu  
50 55

<210> 52  
<211> 145  
<212> PRT  
<213> Homo sapiens

<400> 52  
Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro  
1 5 10 15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu  
20 25 30

Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp  
35 40 45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala  
50 55 60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu  
65 70 75 80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly  
85 90 95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser  
100 105 110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln  
115 120 125

Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn  
130 135 140

Arg  
145

<210> 53  
<211> 139  
<212> PRT  
<213> Homo sapiens

PZ045P1\_SeqList04112001.txt

<400> 53

Met Lys Thr Leu Leu<sub>5</sub> Leu Leu Val Gly Leu<sub>10</sub> Leu Leu Thr Trp Glu Asn<sub>15</sub>  
 Gly Arg Val Leu<sub>20</sub> Gly Asp Gln Met Val<sub>25</sub> Ser Asp Thr Glu Leu<sub>30</sub> Gln Glu  
 Met Ser Thr<sub>35</sub> Glu Gly Ser Lys Tyr<sub>40</sub> Ile Asn Arg Glu Ile<sub>45</sub> Lys Asn Ala  
 Leu Lys<sub>50</sub> Gly Val Lys Gln Ile<sub>55</sub> Lys Thr Leu Ile Glu<sub>60</sub> Gln Thr Asn Glu  
 Glu Arg Lys Ser Leu<sub>70</sub> Thr Asn Leu Glu Glu<sub>75</sub> Ala Lys Lys Lys Lys<sub>80</sub>  
 Glu Asp Ala Leu<sub>85</sub> Asp Thr Lys Asp Ser<sub>90</sub> Glu Met Lys Leu Lys<sub>95</sub> Ala  
 Ser Gln Gly Val<sub>100</sub> Cys Asn Asp Thr Met<sub>105</sub> Met Ala Leu Trp Glu<sub>110</sub> Glu Cys  
 Lys Pro Cys<sub>115</sub> Leu Lys Gln Thr Trp<sub>120</sub> Gly Lys Gly Leu Arg<sub>125</sub> Pro Ser Leu  
 Gln Lys<sub>130</sub> Gln His Arg Ala Gly<sub>135</sub> Trp Pro Pro Gly

<210> 54

<211> 432

<212> PRT

<213> Homo sapiens

<400> 54

Met Asp Ala Arg Trp<sub>5</sub> Trp Ala Val Val<sub>10</sub> Leu Ala Ala Phe Pro Ser<sub>15</sub>  
 Leu Gly Ala Gly<sub>20</sub> Gly Glu Thr Pro Glu<sub>25</sub> Ala Pro Pro Glu Ser<sub>30</sub> Trp Thr  
 Gln Leu Trp<sub>35</sub> Phe Phe Arg Phe Val<sub>40</sub> Val Asn Ala Ala Gly<sub>45</sub> Tyr Ala Ser  
 Phe Met<sub>50</sub> Val Pro Gly Tyr Leu<sub>55</sub> Leu Val Gln Tyr Phe Arg Arg Lys Asn  
 Tyr<sub>65</sub> Leu Glu Thr Gly Arg<sub>70</sub> Gly Leu Cys Phe Pro<sub>75</sub> Leu Val Lys Ala Cys<sub>80</sub>  
 Val Phe Gly Asn Glu<sub>85</sub> Pro Lys Ala Ser Asp<sub>90</sub> Glu Val Pro Leu Ala Pro<sub>95</sub>  
 Arg Thr Glu Ala<sub>100</sub> Ala Glu Thr Thr Pro<sub>105</sub> Met Trp Gln Ala Leu Lys Leu<sub>110</sub>  
 Leu Phe Cys<sub>115</sub> Ala Thr Gly Leu Gln<sub>120</sub> Val Ser Tyr Leu Thr<sub>125</sub> Trp Gly Val  
 Leu Gln Glu Arg Val Met Thr<sub>135</sub> Arg Ser Tyr Gly Ala<sub>140</sub> Thr Ala Thr Ser  
 Pro Gly Glu Arg Phe Thr<sub>150</sub> Asp Ser Gln Phe Leu Val<sub>155</sub> Leu Met Asn Arg<sub>160</sub>  
 Val Leu Ala Leu Ile<sub>165</sub> Val Ala Gly Leu Ser<sub>170</sub> Cys Val Leu Cys Lys<sub>175</sub> Gln

PZ045P1\_SeqList04112001.txt

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser  
180 185 190  
Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser  
195 200 205  
Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met  
210 215 220  
Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr  
225 230 235 240  
Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser  
245 250 255  
Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu  
260 265 270  
Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp  
275 280 285  
Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe  
290 295 300  
Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu  
305 310 315 320  
Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu  
325 330 335  
Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln  
340 345 350  
Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr  
355 360 365  
Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu  
370 375 380  
Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val  
385 390 395 400  
Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys  
405 410 415  
Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val  
420 425 430

<210> 55  
<211> 133  
<212> PRT  
<213> Homo sapiens

<400> 55  
Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr  
1 5 10 15  
Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro  
20 25 30  
Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile  
35 40 45  
Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly  
Page 29

50

55

60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr  
 65 70 75 80  
 Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala  
 85 90 95  
 Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro  
 100 105 110  
 Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val  
 115 120 125  
 Phe Phe Val Arg Asp  
 130

&lt;210&gt; 56

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp  
 1 5 10 15  
 Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg  
 20 25 30  
 Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn  
 35 40 45  
 Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser  
 50 55 60  
 Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr  
 65 70 75

&lt;210&gt; 57

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 57

Asn Arg Pro Gly Gly Arg Val Tyr Ala Arg Val Cys Arg Ser Ser Thr  
 1 5 10 15  
 Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn Gln Ser Ser Pro  
 20 25 30  
 Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser Leu Leu Glu Asn  
 35 40 45  
 Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln Asp Ser Phe Asp  
 50 55 60  
 Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp Arg Phe Phe Thr  
 65 70 75 80  
 Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe Ser Ser Phe Gln  
 85 90 95  
 Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe Ala Arg Asn Ile  
 100 105 110  
 Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His Asp Met Phe Gln

PZ045P1\_SeqList04112001.txt

115

120

125

Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala Met Asp Val Asn  
 130 135 140  
 Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr Glu Glu Asp Asn  
 145 150 155 160  
 Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn Ser Thr Gly Cys  
 165 170 175  
 Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu Ile Leu Ser Val  
 180 185 190  
 Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu Arg Gln Glu Leu  
 195 200 205  
 Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys Leu Val Arg Arg  
 210 215 220  
 Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His Val Leu Pro Ala  
 225 230 235 240  
 Glu Ala Ala Gly Arg Ala Val  
 245

<210> 58  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 58  
 Met Ala Val Ala Lys Asp Met Trp Gln Glu Cys Asn Pro Asp Lys Lys  
 1 5 10 15  
 Val Trp Tyr Pro Glu Leu Lys Pro Val Val Val Gly Arg Lys Arg Gln  
 20 25 30  
 Gly Cys Ile His Met Val Asn Cys Ser Glu Val Arg Lys Glu Glu Leu  
 35 40 45  
 Gly Ile Thr Glu Phe Leu Ala Leu Ser Gly Gln Met Thr Val Pro Leu  
 50 55 60  
 Thr Lys Ile Gly Arg Thr Arg Ala Val Gly Lys Met Ser Ser Ser Leu  
 65 70 75 80  
 Tyr Met Leu Leu Phe  
 85

<210> 59  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

<400> 59  
 His Glu Gly Ser Leu Ala Ala Pro Gly Gly Gly Gly Gly Ser Ala Gly  
 1 5 10 15  
 Gly Ala Arg Pro Gly Asp Ser His Ser Pro Val Pro Pro Pro His  
 20 25 30  
 Ala Ala Trp Thr Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala  
 35 40 45  
 Ala Phe Pro Ser Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro  
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Glu 65	Ser	Trp	Thr	Gln	Leu 70	Trp	Phe	Phe	Arg	Phe 75	Val	Val	Asn	Ala	Ala 80
Gly	Tyr	Ala	Ser	Phe 85	Met	Val	Pro	Gly	Tyr 90	Leu	Leu	Val	Gln	Tyr 95	Phe
Arg	Arg	Lys	Asn 100	Tyr	Leu	Glu	Thr	Gly 105	Arg	Gly	Leu	Cys	Phe 110	Pro	Leu
Val	Lys	Ala 115	Cys	Val	Phe	Gly	Asn 120	Glu	Pro	Lys	Ala	Ser 125	Asp	Glu	Val
Pro	Leu 130	Ala	Pro	Arg	Thr	Glu 135	Ala	Ala	Glu	Thr	Thr 140	Pro	Met	Trp	Gln
Ala 145	Leu	Lys	Leu	Leu	Phe 150	Cys	Ala	Thr	Gly	Leu 155	Gln	Val	Ser	Tyr	Leu 160
Thr	Trp	Gly	Val	Leu 165	Gln	Glu	Arg	Val	Met 170	Thr	Arg	Ser	Tyr	Gly 175	Ala
Thr	Ala	Thr	Ser 180	Pro	Gly	Glu	Arg	Phe 185	Thr	Asp	Ser	Gln	Phe 190	Leu	Val
Leu	Met	Asn 195	Arg	Val	Leu	Ala	Leu 200	Ile	Val	Ala	Gly	Leu 205	Ser	Cys	Val
Leu	Cys 210	Lys	Gln	Pro	Arg	His 215	Gly	Ala	Pro	Met	Tyr 220	Arg	Tyr	Ser	Phe
Ala 225	Ser	Leu	Ser	Asn	Val 230	Leu	Ser	Ser	Trp	Cys 235	Gln	Tyr	Glu	Ala	Leu 240
Lys	Phe	Val	Ser	Phe 245	Pro	Thr	Gln	Val	Leu 250	Ala	Lys	Ala	Ser	Lys 255	Val
Ile	Pro	Val	Met 260	Leu	Met	Gly	Lys	Leu 265	Val	Ser	Arg	Arg	Ser 270	Tyr	Glu
His	Trp	Glu 275	Tyr	Leu	Thr	Ala	Thr 280	Leu	Ile	Ser	Ile	Gly 285	Val	Ser	Met
Phe	Leu 290	Leu	Ser	Ser	Gly	Pro 295	Glu	Pro	Arg	Ser	Ser 300	Pro	Ala	Thr	Thr
Leu 305	Ser	Gly	Leu	Ile	Leu 310	Leu	Ala	Gly	Tyr	Ile 315	Ala	Phe	Asp	Ser	Phe 320
Thr	Ser	Asn	Trp	Gln 325	Asp	Ala	Leu	Phe	Ala 330	Tyr	Lys	Met	Ser	Ser 335	Val
Gln	Met	Met	Phe 340	Gly	Val	Asn	Phe	Phe 345	Ser	Cys	Leu	Phe	Thr 350	Val	Gly
Ser	Leu	Leu 355	Glu	Gln	Gly	Ala	Leu 360	Leu	Glu	Gly	Thr	Arg 365	Phe	Met	Gly
Arg	His 370	Ser	Glu	Phe	Ala	Ala 375	His	Ala	Leu	Leu	Leu 380	Ser	Ile	Cys	Ser
Ala 385	Cys	Gly	Gln	Leu	Phe 390	Ile	Phe	Tyr	Thr	Ile 395	Gly	Gln	Phe	Gly	Ala 400
Ala	Val	Phe	Thr	Ile 405	Ile	Met	Thr	Leu	Arg 410	Gln	Ala	Phe	Ala	Ile 415	Leu



PZ045P1\_SeqList04112001.txt

Leu Ser Cys Leu Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu  
 420 425 430  
 Gly Val Ala Val Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg  
 435 440 445  
 Gly Arg Leu Lys Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro  
 450 455 460  
 Val Gln Lys Val  
 465

<210> 60  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 60  
 Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr  
 1 5 10 15  
 Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro  
 20 25 30  
 Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile  
 35 40 45  
 Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly  
 50 55 60  
 Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr  
 65 70 75 80  
 Leu Ile Ala Met Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala  
 85 90 95  
 Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro  
 100 105 110  
 Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val  
 115 120 125  
 Phe Phe Val Arg Asp  
 130

<210> 61  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 61  
 Met Phe Leu Pro Thr Phe Tyr Pro Glu Lys Arg Phe Ser Pro Lys Asp  
 1 5 10 15  
 Ser Ala Gln Ser Val Pro Pro Trp Glu His Leu Pro Gly Gln Pro Leu  
 20 25 30  
 Arg Ala His Trp Ala Ser Leu His His Thr Asn Thr Pro Val Pro His  
 35 40 45  
 Trp Leu Ser Asp Tyr Met Ala Val Cys Leu Val Lys Lys Lys Asn Gln  
 50 55 60  
 Lys Lys Lys Lys Gln Lys Lys Lys Lys Lys  
 65 70 75

PZ045P1\_SeqList04112001.txt

<210> 62  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 62  
 Val Gly Thr Ala Ile Met Glu Asn Ser Met Ala Val Pro Leu Lys Thr  
 1 5 10 15  
 Glu Leu Pro Tyr Asp Pro Ala Ile Pro Leu Leu Ser Ile Pro Lys Glu  
 20 25 30  
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
 35 40 45  
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
 50 55 60  
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
 65 70 75 80  
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
 85 90

<210> 63  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 63  
 Ala Arg Gly Pro Leu Gly Leu Leu Asp Pro Ala Glu Gly Leu Ser Arg  
 1 5 10 15  
 Arg Lys Lys Thr Ser Leu Trp Phe Val Gly Ser Leu Leu Leu Val Ser  
 20 25 30  
 Val Leu Ile Val Thr Val Gly Leu Ala Ala Thr Thr Arg Thr Glu Asn  
 35 40 45  
 Val Thr Val Gly Gly Tyr Tyr Pro Gly Ile Ile Leu Gly Phe Gly Ser  
 50 55 60  
 Phe Leu Gly Ile Ile Gly Ile Asn Leu Val Glu Asn Arg Arg Gln Met  
 65 70 75 80  
 Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala Phe  
 85 90 95  
 Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu Pro  
 100 105 110  
 Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val Gly  
 115 120 125  
 Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu Ile  
 130 135 140  
 His Val Gly Leu Leu Asn  
 145 150

<210> 64  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

PZ045P1\_SeqList04112001.txt

<400> 64

Thr Arg Pro Val Leu Ala Tyr Val Leu Gly Asp Pro Ala Ile Tyr Gln  
 1 5 10 15  
 Ser Leu Lys Ala Gln Asn Ala Tyr Ser Arg His Cys Pro Phe Tyr Val  
 20 25 30  
 Ser Ile Gln Ser Tyr Trp Leu Ser Phe Phe Met Val Met Ile Leu Phe  
 35 40 45  
 Val Ala Phe Ile Thr Cys Trp Glu Glu Val Thr Thr Leu Val Gln Ala  
 50 55 60  
 Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr Ile Leu Tyr Phe Pro Phe  
 65 70 75 80  
 Ser Ser His Ser Ser Tyr Thr Val Arg Ser Lys Lys Ile Phe Leu Ser  
 85 90 95  
 Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu  
 100 105 110  
 Gln Val Ile Ile Val Leu Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu  
 115 120 125  
 Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr  
 130 135 140  
 Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu  
 145 150 155 160  
 Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr  
 165 170 175  
 Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys  
 180 185 190

<210> 65

<211> 269

<212> PRT

<213> Homo sapiens

<400> 65

Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser Pro Glu Glu Leu  
 1 5 10 15  
 Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn Leu Gln Ser Tyr  
 20 25 30  
 Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg Asn Arg Val Asn  
 35 40 45  
 Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala Leu Leu Ser Asp  
 50 55 60  
 Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe Gly Phe Gly Ser  
 65 70 75 80  
 Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro Val Asn Asn Ser  
 85 90 95  
 Ser Ser Asp Asn Ala Gln Asn Phe Ser Phe Lys Thr Asn Ser Gly Phe  
 100 105 110

PZ045P1\_SeqList04112001.txt

Ala Ala Ala Ser Ser Gly Ser Pro Ala Gly Phe Gly Ser Ser Pro Ala  
115 120 125  
Phe Gly Ala Ala Ala Ser Thr Ser Ser Gly Ile Ser Thr Ser Ala Pro  
130 135 140  
Ala Phe Gly Phe Gly Lys Pro Glu Val Thr Ser Ala Ala Ser Phe Ser  
145 150 155 160  
Phe Lys Ser Pro Ala Ala Ser Ser Phe Gly Ser Pro Gly Phe Ser Gly  
165 170 175  
Leu Pro Ala Ser Leu Ala Thr Gly Pro Val Arg Ala Pro Val Ala Pro  
180 185 190  
Ala Phe Gly Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Ser  
195 200 205  
His Ser His Thr Ala Phe Ser Lys Pro Ser Ser Asp Thr Phe Gly Asn  
210 215 220  
Ser Ser Ile Ser Thr Ser Leu Ser Ala Ser Ser Ser Ile Ile Ala Thr  
225 230 235 240  
Asp Asn Val Leu Phe Thr Pro Arg Asn Lys Leu Thr Val Glu Glu Leu  
245 250 255  
Glu Gln Phe Gln Ser Lys Lys Phe Thr Leu Gly Lys Ile  
260 265

<210> 66  
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<400> 66

Met Ser Ser Ser His Pro Val Ser Pro Asn Pro His His Gly Gly Ala  
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Ala Glu Ile Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser Pro  
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Glu Glu Leu Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn Leu  
35 40 45  
Gln Ser Tyr Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg Asn  
50 55 60  
Arg Val Asn Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala Leu  
65 70 75 80  
Leu Ser Asp Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe Gly  
85 90 95  
Phe Gly Ser Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro Val  
100 105 110  
Asn Asn Ser Ser Ser Asp Asn Ala Gln Asn Phe Ser Phe Lys Thr Asn  
115 120 125  
Ser Gly Phe Ala Ala Ala Ser Ser Gly Ser Pro Ala Gly Phe Gly Ser  
130 135 140  
Ser Pro Ala Phe Gly Ala Ala Ala Ser Thr Ser Ser Gly Ile Ser Thr  
145 150 155 160  
Ser Ala Pro Ala Phe Gly Phe Gly Lys Pro Glu Val Thr Ser Ala Ala

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165 170 175  
 Ser Phe Ser Phe Lys Ser Pro Ala Ala Ser Ser Phe Gly Ser Pro Gly  
 180 185 190  
 Phe Ser Gly Leu Pro Ala Ser Leu Ala Thr Gly Pro Val Arg Ala Pro  
 195 200 205  
 Val Ala Pro Ala Phe Gly Gly Gly Ser Ser Val Ala Gly Phe Gly Ser  
 210 215 220  
 Pro Gly Ser His Ser His Thr Ala Phe Ser Lys Pro Ser Ser Asp Thr  
 225 230 235 240  
 Phe Gly Asn Ser Ser Ile Ser Thr Ser Leu Ser Ala Ser Ser Ser Ile  
 245 250 255  
 Ile Ala Thr Asp Asn Val Leu Phe Thr Pro Arg Asn Lys Leu Thr Val  
 260 265 270  
 Glu Glu Leu Glu Gln Phe Gln Ser Lys Lys Phe Thr Leu Gly Lys Ile  
 275 280 285  
 Pro Leu Lys Pro Pro Pro Leu Glu Leu Leu Asn Val  
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 Ser Phe Lys Ala Gly Ala Ala Leu Glu Ile Gly Ala Gly Thr Asn Ile  
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 Pro Val Leu Gly Val Gln Glu Glu Asp Gly Ser Asn Arg Ser Ser Ser  
 35 40 45  
 Leu Gln Val Ile Ile Asp Val Asp Gly Ile Gln Leu Ala Arg Asp Ile  
 50 55 60  
 Pro Met Ser Ser Ser His Pro Val Ser Pro Asn Pro His His Gly Gly  
 65 70 75 80  
 Ala Ala Glu Ile Lys Lys Pro Asn Ile Ser Gly Phe Thr Asp Ile Ser  
 85 90 95  
 Pro Glu Glu Leu Arg Leu Glu Tyr His Asn Phe Leu Thr Ser Asn Asn  
 100 105 110  
 Leu Gln Ser Tyr Leu Asn Ser Val Gln Arg Leu Ile Asn Gln Trp Arg  
 115 120 125  
 Asn Arg Val Asn Glu Leu Lys Ser Leu Asn Ile Ser Thr Lys Val Ala  
 130 135 140  
 Leu Leu Ser Asp Val Lys Asp Gly Val Asn Pro Ala Ala Pro Ala Phe  
 145 150 155 160  
 Gly Phe Gly Ser Ser Gln Ala Ala Thr Phe Met Ser Pro Gly Phe Pro  
 165 170 175  
 Val Asn Asn Ser Ser Ser Asp Asn Ala Gln Asn Phe Ser Phe Lys Thr  
 180 185 190

PZ045P1\_SeqList04112001.txt

Asn Ser Gly Phe Ala Ala Ala Ser Ser Gly Ser Pro Ala Gly Phe Gly  
 195 200 205  
 Ser Ser Pro Ala Phe Gly Ala Ala Ala Ser Thr Ser Ser Gly Ile Ser  
 210 215 220  
 Thr Ser Ala Pro Ala Phe Gly Phe Gly Lys Pro Glu Val Thr Ser Ala  
 225 230 235 240  
 Ala Ser Phe Ser Phe Lys Ser Pro Ala Ala Ser Ser Phe Gly Ser Pro  
 245 250 255  
 Gly Phe Ser Gly Leu Pro Ala Ser Leu Ala Thr Gly Pro Val Arg Ala  
 260 265 270  
 Pro Val Ala Pro Ala Phe Gly Gly Gly Ser Ser Val Ala Gly Phe Gly  
 275 280 285  
 Ser Pro Gly Ser His Ser His Thr Ala Phe Ser Lys Pro Ser Ser Asp  
 290 295 300  
 Thr Phe Gly Asn Ser Ser Ile Ser Thr Ser Leu Ser Ala Ser Ser Ser  
 305 310 315 320  
 Ile Ile Ala Thr Asp Asn Val Leu Phe Thr Pro Arg Asn Lys Leu Thr  
 325 330 335  
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Cys Lys Pro Cys Leu Lys  
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<400> 70  
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 1 5 10 15

Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp Arg Cys Trp Asn Glu His  
 20 25 30

Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg Gln Gln Pro Gln Gln Gln  
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45

40

Gly  
80